



United States Department of the Interior

FISH AND WILDLIFE SERVICE

646 Cajundome Blvd.
Suite 400
Lafayette, Louisiana 70506

October 21, 2005

Ms. Karen K. Gautreaux
Deputy Secretary
Louisiana Dept. of Environmental Quality
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Dear Ms. Gautreaux:

Please reference our March 22, 1996, Memorandum of Understanding (MOU) with the Louisiana Department of Environmental Quality (LDEQ) regarding federally listed threatened and endangered species, and the Louisiana Pollutant Discharge Elimination System (LPDES) program. In accordance with the terms of that MOU, the U.S. Fish and Wildlife Service (Service) is pleased to provide LDEQ with the enclosed current list of sensitive areas (i.e., waters deemed important for the conservation of threatened and endangered species).

In September 1996, our agencies developed an implementation strategy for the Scope-of-Work section of the MOU. That strategy (updated in February 1997, September 1997, September 1998, September 1999, October 2000, September 2001, September 2002, September 2003, and September 2004) included a list of sensitive areas, types of permits, notices of intent (NOI), substances of concern, and listed species for which the Service requested coordination. As we have done in the past, the Service intends to continue that implementation strategy (enclosed) for the upcoming federal fiscal year (October 2005 through September 2006). Please note the addition of Section II.2.6 regarding cooling water intake structures. As discussed at our October 12, 2005, meeting, we have also included updated sensitive areas for federally listed threatened and endangered species, and their critical habitat based on updated occurrence information.

The Service appreciates the continuing cooperation of LDEQ during this process. If you or your staff have any comments or require further information, please have them contact Brigitte Firmin (337/291-3108) of this office.

Sincerely,

Russell C. Watson
Supervisor
Louisiana Field Office

Enclosures

cc: Jim Delahoussaye, LDEQ, Baton Rouge, LA
Gary Aydell, LDEQ, Baton Rouge, LA
Dugan Sabins, LDEQ, Baton Rouge, LA
Ross Hartfield, LDEQ, Baton Rouge, LA
Jan Cedars, LDEQ, Baton Rouge, LA
Joe Holmes, LDEQ, Baton Rouge, LA
Steve Baintor, EPA, Dallas, TX

**2005-2006 Implementation Strategy for
Louisiana Department of Environmental Quality
and the United States Fish and Wildlife Service
Memorandum of Understanding**

Section II. Scope of Work

Section II.1 LDEQ and the Service will follow the procedures described in the MOU. The Service, by October 1, 2005, will provide LDEQ a list of all federally listed threatened and endangered species in Louisiana that are dependant on aquatic habitat, and areas important for the protection of migratory birds. (Bolded species and/or subsegments are 2005-2006 additions.)

<u>Species</u>	<u>Subsegments</u>
Fat pocketbook	070101
Inflated heelsplitter	040302
Louisiana pearlshell	060208, 060209, 101301, 101302
Pink Mucket Pearly Mussel	080401
Ringed sawback turtle	090101-090107 (excluding 090104), 090201-090207, 090501
Gulf sturgeon, critical habitat	040302, 040303, 040501-040503, 040602, 040604, 040701-040704, 040801-040804, 040902, 040904, 040910, 041001, 041002, 041701, 041703, 041704, 042001, 042003, 042201, 042203-042206, 090101- 090107, 090201-090208, 090301, 090401, 090501, 090506
Pallid sturgeon	010101, 010201, 010501, 010502, 010801-010803, 070101, 070201, 070301, 070502, 100201
Louisiana quillwort	040804, 040904, 090501, 090506
West Indian manatee	040302, 040403, 040601, 040911, 041704, 042101, 042202

Areas (National Wildlife Refuges) Important for the Protection of Migratory Waterfowl

<u>Area Name</u>	<u>Subsegments</u>
Atchafalaya	010401
Bayou Cocodrie	101601, 101602, 101605, 101607
Bayou Sauvage	041001, 041401, 041601, 041702, 042001, 042004
Bayou Teche	010601, 060501, 060906, 060907
Big Branch Marsh	040902, 040904
Black Bayou Lake	080701
Bogue Chitto	090102, 090106, 090107, 090201-090206
Breton	042201, 042202, 042209
Cameron Prairie	030402, 031101, 050601
Cat Island	070201, 070501, 070505
Catahoula	081603, 081605, 081610
D'Arbonne	080605
Delta	070301, 070402, 070403
Grand Cote	060212, 100203
Handy Brake	080904
Lacassine	050402, 050601, 050602, 050701, 050702
Lake Ophelia	100201, 100202
Mandalay	120202, 120403, 120405
Red River	100101, 100601, 100606, 101101
Sabine	030401, 030402, 030403, 031002, 110302, 110303, 110602
Shell Keys	061201
Tensas River	081201, 081202
Upper Ouachita	080101

Section II.2 LDEQ and the Service will follow the procedures described in the MOU except that the Service will only request coordination on those permits that fall into one or more of the following four categories:

1. The proposed permit occurs in a subset of sensitive waters defined as those subsegments where the following species occur, and the regulated discharge **contains one or more of the listed below substances:**

<u>Species</u>	<u>Subsegments</u>
Fat pocketbook	070101
Inflated heelsplitter	040302
Louisiana pearlshell	060208, 060209, 101301, 101302
Pink Mucket Pearly Mussel	080401

Ringed sawback turtle	090101-090107 (excluding 090104), 090201-090207, 090501
Gulf sturgeon, critical habitat	040302, 040303, 040501-040503, 040602, 040604, 040701-040704, 040801-040804, 040902, 040904, 040910, 041001, 041002, 041701, 041703, 041704, 042001, 042003, 042201, 042203-042206, 090101- 090107, 090201-090208, 090301, 090401, 090501, 090506
Pallid sturgeon	010101, 010201, 010501, 010502, 010801-010803, 070101, 070201, 070301, 070502, 100201
West Indian manatee	040302, 040403, 040601, 040911, 041704, 042101, 042202

Substance

Endosulfan
Hexachlorobenzene
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)
Arsenic
Chromium III
Chromium VI
Zinc
Cadmium
Copper
Lead
Mercury
Nickel
Cyanide
Pentachlorophenol (PCP); or

2. The proposed permit is for **sanitary sewage treatment by major dischargers located in the sensitive areas described in Section II.2.1; or**
3. The proposed permit is for a **landfill** (other than those covered under Construction/Demolition Debris and Woodwaste Landfill [LAG780000] and Municipal Solid Waste Landfill [LAG660000] General Permits) **located in the subset of sensitive areas described in Section II.2.1; or**

4. The proposed permit is for an **electrical generating facility located in the sensitive areas described in Section II.2.1**; or
5. The proposed permit is for a **sand and gravel operation and occurs in a subset of sensitive waters expected to support the Louisiana quillwort (subsegments 040804, 040904, 090501, 090506)**; or
6. The proposed permit is for a **facility utilizing a cooling water intake structure that is regulated under §316(b) of the Clean Water Act and is located in the sensitive areas described in Section II.2.1**.

If a proposed permit falls into one or more of the above categories, the proposed discharge may affect a listed species and coordination should be initiated with the Service to:

- 1) determine if an adverse effect exists, and
- 2) explore ways to remove the effect.

Because hydrologic subsegments often cover large geographic areas, it is expected (for species with restricted distributions) that some proposed permits located in sensitive areas may not affect a species because the species is not actually present at that proposed discharge site. However, if an effect exists and that effect can be removed, a "not likely to adversely affect" determination will be made by LDEQ on the modified permit and submitted to the Service for concurrence. If no agreement can be reached between the Service and LDEQ, procedures for consulting with EPA as outlined in the MOU will be followed.

Based on LDEQ effluent limitations established for the protection of aquatic life and maintenance of the receiving waters as aquatic habitat, proposed permits not falling into those above-described categories are not likely to adversely affect listed species; therefore, no coordination with the Service is required.

Section II.3 LDEQ and the Service will follow the procedures described in the MOU except that the Service will only request coordination on NOI's under the General Permit for Cement, Concrete, and Asphalt Facilities (LAG110000) when those proposed permits are located in the sensitive areas described in Section II.2.1.

Based on effluent limitations established for the protection of aquatic life and maintenance of the receiving waters as aquatic habitat, the Service has determined that the following general permits are not likely to adversely affect listed species; and therefore, no coordination is required:

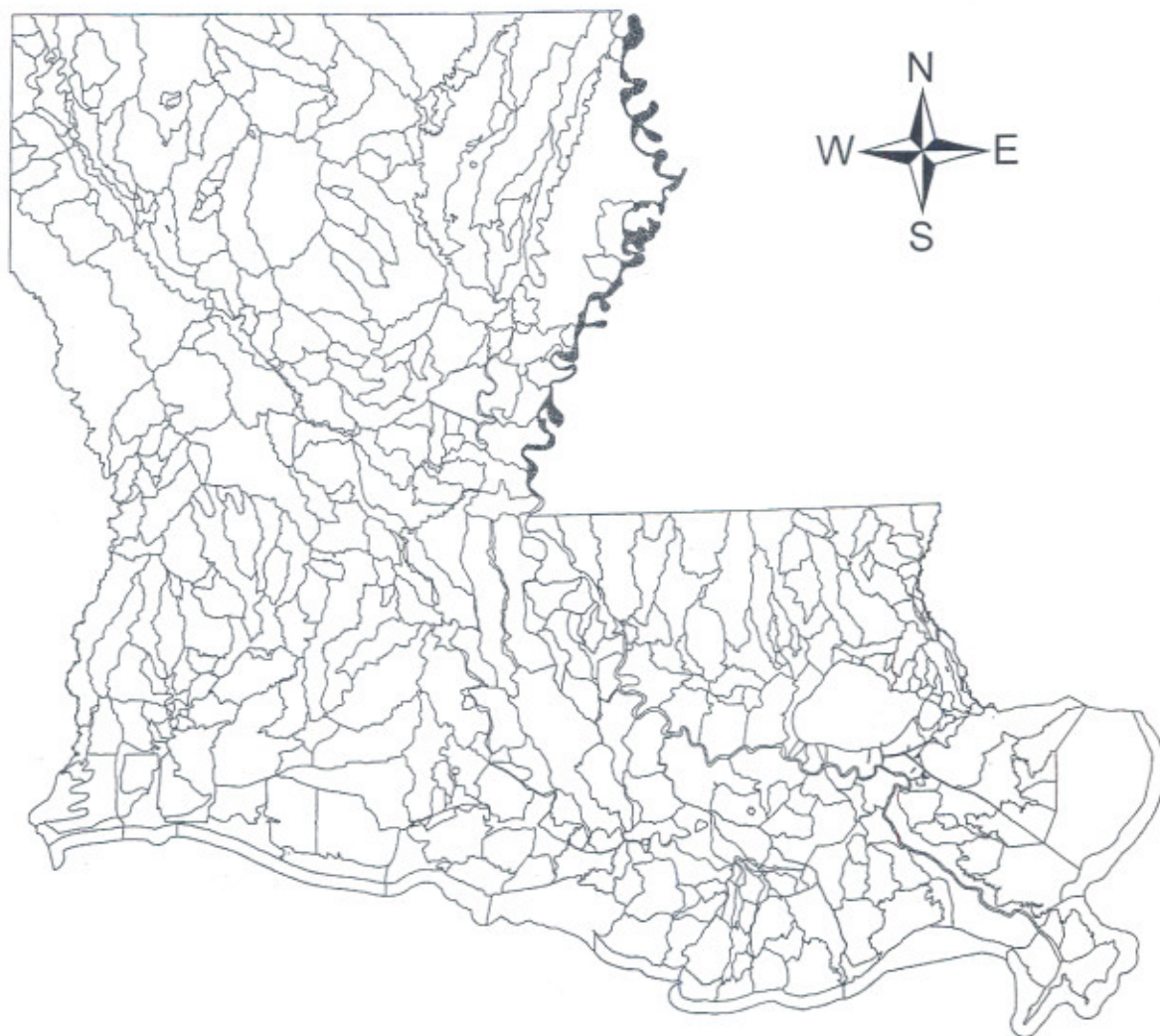
Automatic and/or Self-Serve Car Wash Facilities (LAG470000)
C & D Landfills (LAG780000)

Concentrated Animal Feeding Operations (LAG010000)
Dewatering Petroleum Tanks (LAG300000)
Exterior Vehicle Wastewater (LAG750000)
Groundwater Remediation (LAG940000)
Hydrostatic Test Wastewater (LAG670000)
Light Commercial (LAG480000)
Multi-Sector (LAR050000)
Municipal Solid Waste Landfills (LAG660000)
Oil and Gas Activities (LAG330000)
Petroleum UST Cleanup (LAG830000)
Potable Water Treatment Plant (LAG380000)
Sanitary Discharge Class I (LAG530000)
Sanitary Discharge Class II (LAG540000)
Sanitary Discharge Class III (LAG560000)
Sanitary Discharge Class IV (LAG570000)
Small Municipal Separate Storm Sewer Systems (LAS400000)
Storm Water for Construction Activities (LAR100000)
Treated Groundwater (LAG940000)

Section II.4 LDEQ and the Service will follow the procedures outlined in this section. LDEQ will send a list of anticipated renewals for all permits falling in all sensitive areas as defined under Section II.1, and all other information as detailed in this section.

Section II.5 LDEQ and the Service will follow the procedures described in the MOU.

Fat Pocketbook Mussel Subsegments
October 2005



0 60 120
Miles

**THREATENED AND ENDANGERED SPECIES OF LOUISIANA
PARISH LIST**

E=Endangered T=Threatened C=Candidate CH=Critical Habitat PCH=Proposed Critical Habitat¹

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>ALLEN</u>			
CHAFF-SEED, AMERICAN	KNOWN	PLANT	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ASCENSION</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ASSUMPTION</u>			
EAGLE, BALD	KNOWN	BIRD	T
<u>AVOUELLES</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>BEAUREGARD</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>BIENVILLE</u>			
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>BOSSIER</u>			
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CADDO</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CALCASIEU</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CAMERON</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>CATAHOULA</u>			
STURGEON, PALLID	POSSIBLE	FISH	E
<u>CLAIBORNE</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
<u>CONCORDIA</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>DE SOTO</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
<u>EAST BATON ROUGE</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON PALLID	KNOWN	FISH	E
<u>EAST CARROLL</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
MUSSEL, FAT POCKETBOOK PEARLY	KNOWN	MOLLUSC	E
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>EAST FELICIANA</u>			
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>EVANGELINE</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>FRANKLIN</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
<u>GRANT</u>			
MUSSEL, LOUISIANA PEARLSHELL	KNOWN	MOLLUSC	T
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>IBERIA</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
PELICAN, BROWN	KNOWN	BIRD	E
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>IBERVILLE</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>JACKSON</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>JEFFERSON</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>LAFOURCHE</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>LA SALLE</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>LIVINGSTON</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>MADISON</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>MOREHOUSE</u>			
EAGLE, BALD	KNOWN	BIRD	T
MUSSEL, PINK MUCKET PEARLY	KNOWN	MOLLUSC	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>NATCHITOCHES</u>			
EAGLE, BALD	KNOWN	BIRD	T
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ORLEANS</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
<u>OUACHITA</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>PLAQUEMINES</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>POINTE COUPEE</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>RAPIDES</u>			
EAGLE, BALD	KNOWN	BIRD	T
MUSSEL, LOUISIANA PEARLSHELL	KNOWN	MOLLUSC	T
STURGEON, PALLID	POSSIBLE	FISH	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>RED RIVER</u>			
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, LEAST INTERIOR	KNOWN	BIRD	E
<u>RICHLAND</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
<u>SABINE</u>			
EAGLE, BALD	KNOWN	BIRD	T
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ST. BERNARD</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>ST. CHARLES</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. HELENA</u>			
STURGEON, GULF	KNOWN	FISH	T
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
<u>ST. JAMES</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. JOHN THE BAPTIST</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. LANDRY</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. MARTIN</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>ST. MARY</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>ST. TAMMANY</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
QUILLWORT, LOUISIANA	KNOWN	PLANT	E
STURGEON, GULF	KNOWN	FISH	T, CH
TORTOISE, GOPHER	KNOWN	REPTILE	T
TURTLE, RINGED MAP	KNOWN	REPTILE	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>TANGIPAHOA</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
TORTOISE, GOPHER	KNOWN	REPTILE	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>TENSAS</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>TERREBONNE</u>			
EAGLE, BALD	KNOWN	BIRD	T
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>UNION</u>			
EAGLE, BALD	KNOWN	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>VERMILLION</u>			
EAGLE, BALD	KNOWN	BIRD	T
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY	KNOWN	REPTILE	E
TURTLE, LEATHERBACK	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD	KNOWN	REPTILE	T
<u>VERNON</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>WASHINGTON</u>			
QUILLWORT, LOUISIANA	KNOWN	PLANT	E
STURGEON, GULF	KNOWN	FISH	T, CH
TORTOISE, GOPHER	KNOWN	REPTILE	T
TURTLE, RINGED MAP	KNOWN	REPTILE	T
<u>WEBSTER</u>			
EAGLE, BALD	KNOWN ²	BIRD	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>WEST BATON ROUGE</u>			
STURGEON, PALLID	KNOWN	FISH	E
<u>WEST CARROLL</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
<u>WEST FELICIANA</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
EAGLE, BALD	KNOWN	BIRD	T
STURGEON, PALLID	KNOWN	FISH	E
<u>WINN</u>			
EARTH FRUIT	KNOWN	PLANT	T
STURGEON, PALLID	POSSIBLE	FISH	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E

¹ Endangered - any species which is in danger of extinction throughout all or a significant portion of its range.

Threatened - any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Candidate - plant and animal taxa considered for possible addition to the List of Endangered and Threatened Species. These are taxa for which the Service has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority listing actions.

Critical Habitat - for listed species consists of: (1) the specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of section 4 of the Act, on which are found those physical or biological features (constituent elements) (a) essential to the conservation of the species and (b) which may require special management considerations or protection; and (2) specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section 4 of the Act, upon a determination by the Secretary that such areas are essential for the conservation of the species.

Proposed Critical Habitat - habitat proposed in the Federal Register to be designated as critical habitat, or habitat proposed to be added to an existing critical habitat designation, under section 4 of the Act for any listed or proposed species.

² Known wintering/roosting areas only - no known nesting locations.

THREATENED AND ENDANGERED SPECIES

E=Endangered T=Threatened C=Candidate

MAMMALS

Bear, Louisiana
(*Ursus americanus luteolus*)
Manatee, West Indian
(*Trichechus manatus*)
Panther, Florida
(*Felis concolor coryi*)
Whale, finback
(*Balaenoptera physalus*)
Whale, humpback
(*Megaptera novaeangliae*)
Whale, right
(*Eubalaena glacialis*)
Whale, sei
(*Balaenoptera borealis*)
Whale, sperm
(*Physeter catodon*)
Wolf, red
(*Canis rufus*)

BIRDS

Curlew, Eskimo
(*Numenius borealis*)
Eagle, bald
(*Haliaeetus leucocephalus*)
Pelican, brown
(*Pelecanus occidentalis*)
Plover, piping
(*Charadrius melodus*)
Tern, interior least
(*Sterna antillarum*)
Warbler, Bachman's
(*Vermivora bachmanii*)
Woodpecker, ivory-billed
(*Campephilus principalis*)
Woodpecker, red-cockaded
(*Picoides borealis*)

REPTILES

Alligator, American
(*Alligator mississippiensis*)
Snake, Louisiana pine
(*Pituophis ruthveni*)
Tortoise, gopher
(*Gopherus polyphemus*)
Turtle, Kemp's (Atlantic) ridley sea
(*Lepidochelys kempii*)
Turtle, green sea
(*Chelonia mydas*)
Turtle, hawksbill sea
(*Eretmochelys imbricata*)
Turtle, leatherback sea
(*Dermochelys coriacea*)
Turtle, loggerhead sea
(*Caretta caretta*)
Turtle, ringed map (=sawback)
(*Graptemys oculifera*)

FISH

Sturgeon, Gulf
(*Acipenser oxyrinchus desotoi*)
Sturgeon, pallid
(*Scaphirhynchus albus*)

GENERAL DISTRIBUTION IN LOUISIANA

T	Entire state
E	Lake Pontchartrain & tributaries on North shore; rare along Gulf coast
E ¹	Entire state
E	Coastal waters
E	Coastal waters
E	Coastal waters
E	Coastal waters
E	Coastal waters
E ¹	Cameron and Calcasieu Parishes
E ¹	Entire state
T	Entire state
E	Coast
T	Coast
E	Mississippi River, north of Baton Rouge; Red River, north of Shreveport & Loggy Bayou
E ²	Entire state
E ¹	Entire state
E	Entire state except Delta
T(S/A) ³	Entire state
C	Blenville, Natchitoches, Sabine, and Vernon Parishes
T	Washington, St. Tammany, and Tangipahoa Parishes
E	Coastal waters
T	Coastal waters
E	Coastal waters
E	Coastal waters
T	Coastal waters
T	Pearl and Bogue Chitto Rivers

T	Pearl River & Lake Pontchartrain tributaries
E	Mississippi River & tributaries

INVERTEBRATES

Mussel, fat pocketbook pearly (<i>Potamilus capax</i>)	E	Mississippi River
Mussel, Alabama heelsplitter (=inflated) (<i>Potamilus inflatus</i>)	T	Amite River
Mussel, Louisiana pearlshell (<i>Margaritifera hembeli</i>)	T	Bayou Boeuf and Bayou Rigolette drainages Rapides and Grant Parishes
Mussel, pink mucket pearly (<i>Lampsilis abrupta</i>)	E	Bayou Bartholomew

PLANTS

American chaff-seed (<i>Schwalbea americana</i>)	E	Allen Parish
Earth fruit (<i>Geocarpon minimum</i>)	T	Winn Parish
Louisiana quillwort (<i>Isoetes louisianensis</i>)	E	Washington and St. Tammany Parishes

¹ The Florida panther, red wolf, Eskimo curlew, and ivory-billed woodpecker are presumed to be extinct in the state.

² There has been no confirmed Bachman's Warbler U.S. nesting ground sighting since the mid-1960s, however, several sightings of the species have occurred on wintering grounds during the last decade. This species may be extirpated in Louisiana.

³ For law enforcement purposes the alligators in Louisiana are classified as "Threatened due to Similarity of Appearance." They are biologically neither endangered nor threatened. Regulated harvest is permitted under State law. September 21, 1998